

STUDIES IN THE EUPATORIEAE (ASTERACEAE). CVIII.

A NEW GENUS, CONDYLOPODIUM.

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A group of species described here as a new genus, Condylopodium, is presently known only from Colombia. The plants show the large leaved shrubby or subarborescent habit of many genera of the Critonioid genera of the Eupatorieae but the style bases are prominently enlarged. In anatomical details the four species are like the Brickellioid series but the latter are all herbs or subshrubs of very different habit. The present inclination is to relate the group closely to the Critonioid genera of the Andes in spite of the presence of the distinct styler node.

Condylopodium R.M.King & H.Robinson, genus novum Asteracearum (Eupatorieae). Frutices erecti vel scandentes laxè ramosi plerumque dense breviter tomentosi. Caules teretes. Folia opposita distincte breviter petiolata, laminis late ellipticis acutis vel acuminatis base rotundatis vel cuneatis; nervis secundariis pinnatis. Inflorescentiae late paniculatae; pedicellis primariis longis ca. 90° divergentibus; pedicellis ultimis brevibus congestis. Involucri squamae 20-30 subimbricatae valde inaequilongae ca. 4-5-seriatae ovatae vel anguste oblongae; receptacula leniter convexa puberula. Flores ca. 10-12 in capitulo; corollae anguste tubulares superne parum infundibulares, lobis oblongo-ovatis aliquantum longioribus quam latioribus laevibus extus glanduliferis parce vel non setiferis; filamenta in parte superiore interdum indistincta brevissima, cellulis oblongis, parietibus vix ornatis, appendices oblongae aliquantum longiores quam latiores; styli inferne nodulosi hirsuti vel glabri, appendicibus elongate clavatis laevibus; achaenia prismatica 5-costata setifera vel paucè glandulifera; carpopodia breviter cylindrica vel rotundata, cellulis minutis quadratis vel breviter oblongis multiseriatis; pappus setiformis uniseriatus,, setis 30-40 scabris ad apicem distincte dilatatis, cellulis apicalibus acutis. Grana pollinis perbrevis spinosa.

Species typica: Eupatorium fuliginosum H.B.K.

The genus Condylopodium is recognized here to include four species of which three are previously undescribed. The species can be distinguished by the following key.

1. Leaves with rounded bases; stylar node glabrous, style branches narrowly clavate at tip.
C. killipii
1. Leaves with cuneate bases; stylar node hirsute, style branches with distinctly enlarged tips. 2
 2. Corolla lobes with only glands on outer surface, phyllaries ca. 34-38 with striations of outer surface obscure or lacking.
C. fuliginosum
 2. Corolla lobes with hairs and glands on outer surface, phyllaries usually ca. 30 with striations of outer surface slightly to very distinct 3
3. Pubescence of leaf undersurface ca. 1 mm long; heads mostly sessile in clusters of 2 or more; plants of higher elevations 1800-2000 m,
C. cuatrecasatii
3. Pubescence of leaf undersurface mostly ca. 0.5 mm long; heads often single on pedicels 3-8 mm long; plants of lower elevations, 1200-1700 m.
C. pennellii

Condylopodium cuatrecasatii R.M.King & H.Robinson, sp. nov. Frutices scandentes vel arborescentes laxè ramosi dense tomentosi. Folia magna, petiolis 1.2-2.5 cm longis, laminis 10-14 cm longis 3.8-6.4 cm latis late ellipticis sensim argute acuminatis minute remote serrulatis base cuneatis supra sparse puberulis subtus glanduliferis et dense pilosis, pilis ca. 1.0 mm longis. Inflorescentiae terminales vel subterminales. Capitula ca. 8 mm alta; involucri squamae ca. 28-30 virides vel rubescentes ca. 4-seriatae 1-6 mm longae 0.8-1.5 mm latae oblongo-ovatae vel oblongo-lineares extus leniter striatae minute dense appresso-puberulae. Flores ca. 20-25 in capitulo; corollae ca. 4.5 mm longae albae vel viridulae, lobis extus glanduliferis et parce setiferis; filamenta antherarum in parte

superiore 100-300 μ longa solum superne distincta, cellulis obscuris, thecae ca. 1.3 mm longae base rotundatae, appendicibus oblongo-ovatis ca. 150-175 μ longis 150 μ latis; styli inferne dense hirsuti, appendicibus valde clavatis; achaenia ca. 2.0 mm longa sparse breviter setifera; pappi setae ca. 40. Grana pollinis ca. 20-22 μ diam.

Type: COLOMBIA: Cauca: Popayan: Timbio en Hato-viejo, bosque, 1800 m. alt. July 14, 1939, E. Perez Arbelaez & J. Cuatrecasas 6083 (Holotype US!). Additional specimen: COLOMBIA: Cauca: Rio Sucio to Rio Piedras, west of Popayan, alt. 1800-2000 m, July 3, 1922, Pennell & Killip 8195 (Paratype US!).

Condylopodium fuliginosum (H.B.K.) R.M.King & H.Robinson, comb. nov. Eupatorium fuliginosum H.B.K., Nov. Gen. et Sp. 4: 86. 1818. ed folio. Colombia.

Condylopodium killipii R.M.King & H.Robinson, sp nov. Plantae scandentes lignosae. Caules dense puberuli. Folia breviter petiolata, petiolis ca. 1.5 cm longis, laminis usque ad 12 cm longis 7 cm latis oblongis breviter acuminatis integris base rotundatis supra subglabris subtus sparse puberulis et glanduliferis. Inflorescentieae axillares et terminales. Capitula ca. 7 mm alta; involucri squamae ca. 20 fuscae 3-4-seriatae 1-4 mm longae 1 mm latae oblongae extus leniter striatae minute puberulae. Flores ca. 9 in capitulo; corollae ca. 5 mm longae "viridi-flavae", lobis extus glanduliferis non setiferis, filamenta antherarum in parte superiore ca. 200 μ longa, thecae ca. 1.2 mm longae base obtuse prominentes, appendicibus ovatis ca. 350 μ longis 250 μ latis; styli inferne glabri, appendicibus vix clavatis; achaenia 2.0-2.5 mm longa pauca breviter setifera et glandulifera; pappi setae ca. 30 Grana pollinis ca. 25 μ diam.

Type: COLOMBIA: Norte de Santander: Pica-Pica Valley, above Tapata (north of Toledo); alt. 2100-2400 meters, March 1-5, 1927, E.P.Killip & A.C.Smith 20243 (Holotype US!).

Condylopodium pennellii R.M.King & H.Robinson, sp. nov. Herbae vel frutices scandentes laxae ramosi dense tomentosi. Folia magna, petiolis usque ad 2

cm longis, laminis usque ad 25 cm latis late ellipticis sensim perargute acuminatis minute remote serrulatis base cuneatis supra sparse puberulis subtus glanduliferis et dense breviter pilosis, pilis ca. 0.5 mm longis, Inflorescentiae terminales. Capitula ca. 9 mm alta; involucri squamae ca. 28-30 virides ca. 4-seriatae 1-6 mm longae 0.8-1.2 mm latae oblongae vel oblongo-lineares extus leniter striatae minute dense appresso-puberulae. Flores ca. 20 in capitulo; corollae ca. 4.0 mm longae albae vel viridi-flavae, lobis extus glanduliferis et parce setiferis; filamenta antherarum in parte superiore 200-400 μ longa solum superne distincta, cellulis obscuris, thecae ca. 1.3 mm longae base rotundatae, appendicibus oblongo-ovatis ca. 200 μ longis 150 μ latis; styli inferne dense hirsuti, appendicibus valde clavatis; achaenia ca. 1.8-2.2 mm longa sparse breviter setifera; pappi setae ca. 40. Grana pollinis ca. 20-22 μ diam.

Type: COLOMBIA: El Cauca, Aganche, alt. 1200-1500 m., July 14, 1922, F.W. Pennell & E.P. Killip 8331 (Holotype US!). Additional specimen: COLOMBIA: El Cauca, Rio Ortega, alt. 1500-1700 m., June 27, 1922, F.W. Pennell & E.P. Killip 7238 (Paratype US!).

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